What is claimed is:

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	1.	A package for optical micro-mechanical devices
comprising:		

a die comprising one or more optical micro-mechanical devices on a first surface of a substrate, the first surface including a die reference surface;

a package frame comprising an aperture and a package frame reference surface proximate the aperture adapted to receive the die reference surface such that the optical micro-mechanical devices are located in the aperture;

one or more optical interconnect alignment mechanisms terminating adjacent to the aperture are positioned relative to an optical interface reference plane; and

distal ends of one or more optical interconnects located in the optical interconnect alignment mechanisms and optically coupled with one or more of the optical micro-mechanical devices.

- 2. The apparatus of claim 1 wherein the optical interface reference plane comprises the die reference surface.
- 20 3. The apparatus of claim 1 wherein the optical interface reference plane comprises the package frame reference surface.
 - 4. The apparatus of claim 1 wherein the optical interface reference plane comprises the plane parallel to the die reference surface located between the die reference surface and the package frame reference surface.
 - 5. The apparatus of claim 1 wherein the optical interconnect alignment mechanisms comprise V-grooves located in the package frame reference surface.

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6. The apparatus of claim 1 wherein the optical interconnect alignment mechanisms comprise V-grooves located in the die reference surface.

	7.	The apparatus of claim 1 wherein the optical interconnect
alignment n	nechanisr	ns are located in both the package frame reference surface
and the die	reference	surface.

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- 8. The apparatus of claim 1 wherein the optical interconnects comprise a tangential relationship with the optical interface reference plane.
- 9. The apparatus of claim 1 wherein a first portion of an optical interconnect is positioned on one side of the optical interface reference plane and a second portion of the optical interconnect is positioned on another side of the optical interface reference plane.
- 10. The apparatus of claim 1 wherein at least one of the optical interconnects contacts the die.
 - 11. The apparatus of claim 1 wherein the optical interconnects terminate adjacent to the die without contacting the die.
- 20 12. The apparatus of claim 1 wherein the optical interconnect comprises one of an optical fiber and optical fiber.
 - 13. The apparatus of claim 12 wherein the lens optically couples the optical fiber with one or more optical micro-mechanical devices.

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- 14. The apparatus of claim 12 wherein the lens contacts the die.
- The apparatus of claim 12 wherein the lens terminates adjacent to the die without contacting the die.

- 16. The apparatus of claim 1 comprising one or more contact pads interposed between the die reference surface and the package frame reference surface.
- 5 17. The apparatus of claim 16 comprising a contact pad on the die reference surface and a contact pad on the package frame reference surface.
- 18. The apparatus of claim 16 wherein the contact pad electrically couples one or more optical micro-mechanical devices with external electrical contacts.
 - 19. The apparatus of claim 16 wherein the contact pad electrically couples one or more optical micro-mechanical devices with a flexible circuit member.

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20. The apparatus of claim 16 wherein the contact pad electrically couples one or more optical micro-mechanical devices with contact pads located on the package frame reference surface.

20 21. The apparatus of claim 1 wherein the aperture comprises a rectangular shape.

22. The apparatus of claim 1 wherein the aperture comprises a complex shape.

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- 23. The apparatus of claim 1 wherein the aperture comprises a cross-shape configured so that the distal ends of the optical fibers terminate in arms of the cross-shaped aperture without contacting the die.
- The apparatus of claim 1 comprising a tooling fixture on a rear surface of the die.

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devices;

- 25. The apparatus of claim 24 wherein the tooling fixture comprises a tooling post.
- The apparatus of claim 24 wherein the tooling fixturecomprises a heat sink.
 - 27. The apparatus of claim 1 comprising an encapsulating material sealing the die to the package frame.
- 10 28. The apparatus of claim 1 comprising a cover sealing the die to the package frame.
 - 29. The apparatus of claim 1 wherein the aperture comprises a cover.

30. The apparatus of claim 1 comprising a flexible circuit electrically coupled to the die.

- 31. The apparatus of claim 1 comprising electric traces on the package frame, the electric traces electrically coupled to contact pads in the package frame reference surface.
- 32. The apparatus of claim 1 comprising:
 a flexible circuit extending across a rear surface of the die;
 one or more vias extending through the die and electrically coupling the optical micro-mechanical devices to the flexible circuit.
 - 33. The apparatus of claim 1 comprising: a shoulder region adjacent to the optical micro-mechanical

electrical traces extending from the optical micro-mechanical devices to the shoulder region; and

a flexible circuit located between the shoulder region and the optical interface reference plane, the flexible circuit being electrically coupled to the traces.

5 34. The apparatus of claim 1 wherein the package frame comprises:

one or more alignment posts positioned to engage with the die reference surface; and

a cavity adjacent to the alignment posts on a side opposite the aperture.

35. The apparatus of claim 34 comprising a flexible circuit extending through the cavity electrically couples with contact pads on the die reference surface.

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- 36. The apparatus of claim 34 comprising an adhesive located in the cavity sufficient to retain the die to the alignment posts.
- 37. The apparatus of claim 1 comprising an optical
 communication system including at least one packaged optical micro-mechanical device.